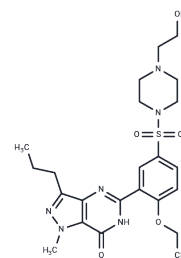


Lodenafil

Chemical Properties

CAS No. :	139755-85-4
Formula:	C ₂₃ H ₃₂ N ₆ O ₅ S
Molecular Weight:	504.6
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Lodenafil (Hydroxyhomosildenafil) is a potent PDE5 inhibitor, with treatment of erectile dysfunction (ED)
Targets(IC50)	PDE
In vivo	Investigated right ventricular hypertrophy (RVH) and IL-1 levels in lung fragments. The number of cases of RVH was significantly higher in the monocrotaline group than in the lodenafil and control groups, as were mPAP and IL-1 levels. Lodenafil can prevent monocrotaline-induced PH, RVH, and inflammation[1].
Animal Research	Thirty male Sprague-Dawley rats were randomly divided into three groups: control; monocrotaline (experimental model); and lodenafil (experimental model followed by lodenafil treatment, 5 mg/kg daily for 28 days) Mean pulmonary artery pressure (mPAP) was obtained by right heart catheterization[1].

Solubility Information

Solubility	DMSO: 250 mg/mL (495.44 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (9.91 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9818 mL	9.9088 mL	19.8177 mL
5 mM	0.3964 mL	1.9818 mL	3.9635 mL
10 mM	0.1982 mL	0.9909 mL	1.9818 mL
50 mM	0.0396 mL	0.1982 mL	0.3964 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Polonio I B , Acencio M M P , Pazetti, Rogério, et al. Lodenafil treatment in the monocrotaline model of pulmonary hypertension in rats[J]. *Jornal Brasileiro de Pneumologia*, 2014, 40(4):421-424.

Silva AC, Toffoletto O, Lucio LA, et al. Cardiovascular repercussion of lodenafil carbonate, a new PDE5 inhibitor, with and without alcohol consumption[J]. *Arq Bras Cardiol*. 2010 Feb;94(2):150-6, 160-7, 152-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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